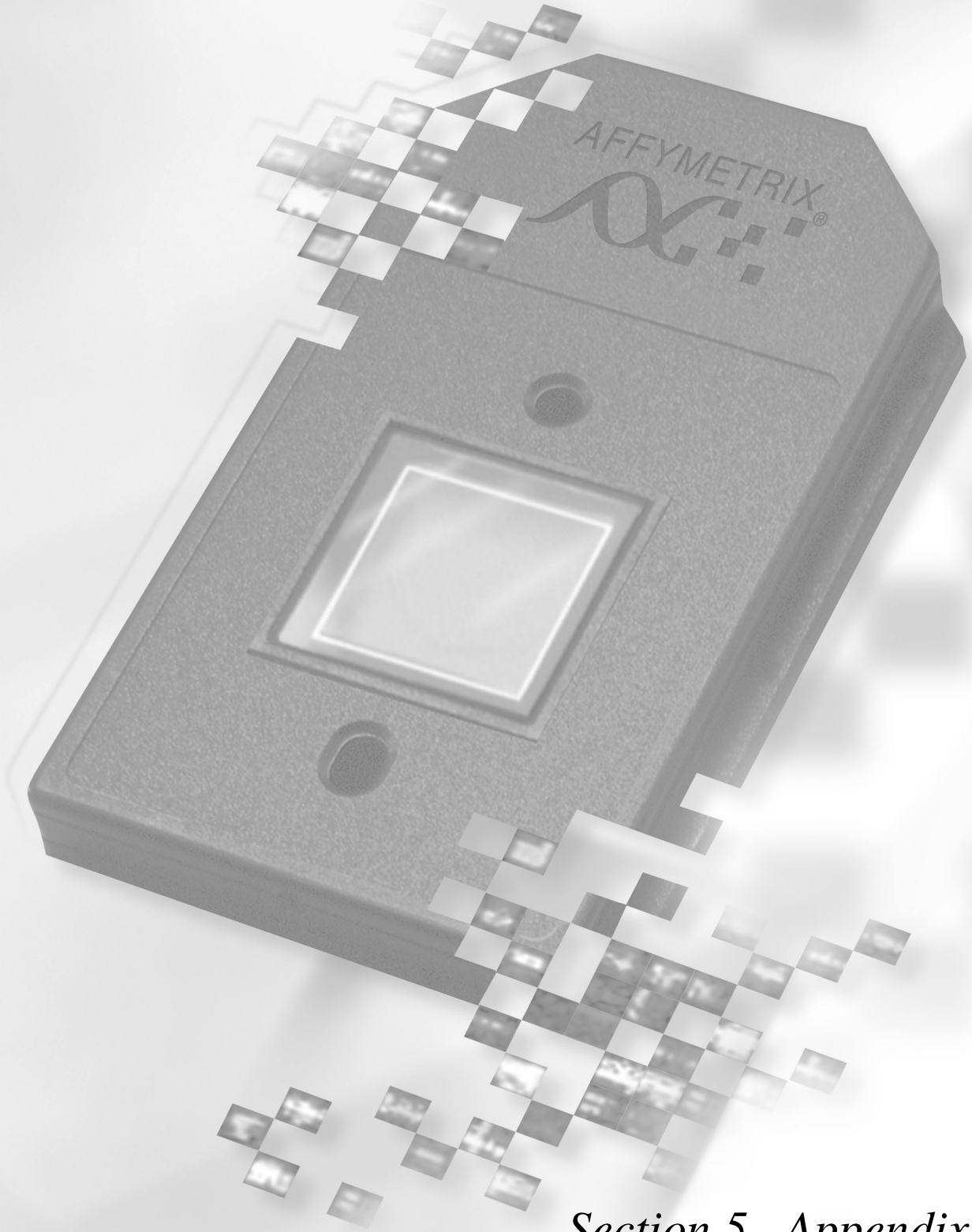

Section 5, Appendix C

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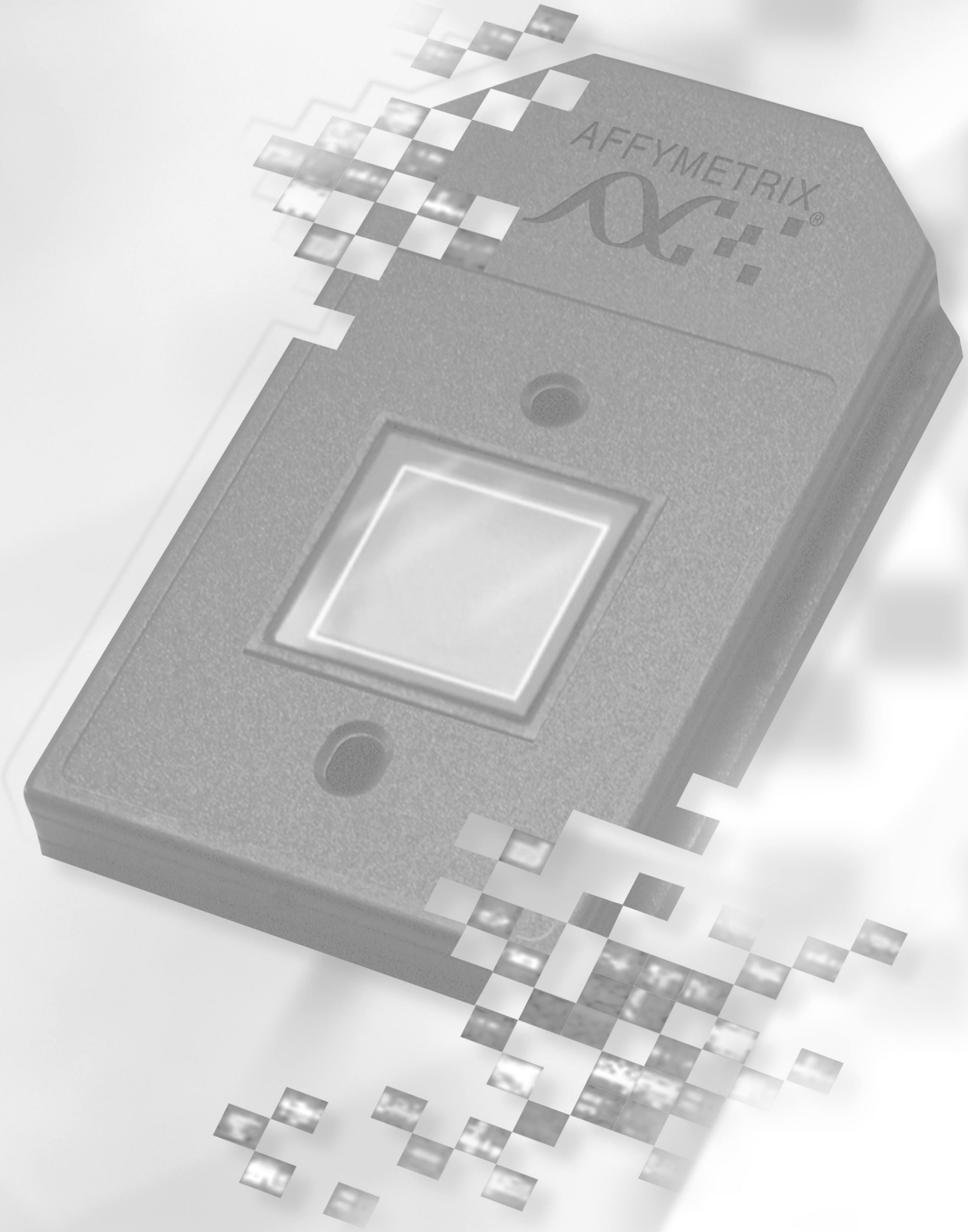

List of Controls on GeneChip Probe Arrays

Table 5.C.1
Control Genes on GeneChip® probe arrays

Array Type	Origin of Organism	Control Gene Name	Utility for GeneChip® Experiments	Associated Affymetrix Products
Eukaryotic Arrays	synthetic	B2 Oligo	Grid alignment.	Control Oligo B2, P/N 900301 Section 2, Chapter 2 and Chapter 3
	E. coli	*bioB* *bioC* *bioD*	Antisense biotinylated cRNA probes are used as hybridization controls.	GeneChip Eukaryotic Hybridization Control Kit, P/N 900299 Section 2, Chapter 3
	P1 Bacteriophage	*cre*	Antisense biotinylated cRNA probes are used as hybridization controls.	
	B. subtilis	*dap* *thr* *trp* *phe* *lys*	Poly-A-tailed sense RNA can be produced by IVT and spiked into isolated RNA samples as controls for the labeling and hybridization process. The spikes can also be used to estimate assay sensitivity.	N/A Section 2, Chapter 2
GeneChip *E. coli* Genome Array	synthetic	B2 Oligo	Grid alignment.	Control Oligo B2, P/N 900301 Section 3, Chapter 3
	B. subtilis	*dap* *thr* *trp* *phe* *lys*	Sense RNA can be produced by IVT and spiked into purified sample RNA as control for the labeling and hybridization process. The spikes can also be used to estimate assay sensitivity.	N/A Section 3, Chapter 2 and Chapter 3